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W. Lawson
PATENT 8/25/01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Sarit Neter) Group Art Unit 2612
)
 Appl. No. : 09/496,607)
)
 Filed : February 2, 2000)
)
 For : METHOD AND APPARATUS)
 FOR COLOR)
 INTERPOLATION)
)
 Examiner : A. Christensen

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Technology Center 2600

AMENDMENT IN RESPONSE TO MAY 18, 2001 OFFICE ACTION

Assistant Commissioner for Patents
 Washington, D.C. 20231

Dear Sir:

In response to the May 18, 2001 Office Action, please amend the above-referenced application as indicated below.

IN THE CLAIMS

Please amend Claims 1, 3, 6, 9, 13, 16, 21, 29, 31-36, 38-39, and 41 as follows. Claims 3-5, 7-8, 10-12, 14-15, 17-20, 22-28, 30, 37, 40 and 42 as originally filed are included below for the Examiner's convenience.

Sub
 1 (Amended) A color imaging system providing on-the-fly color interpolation using analog signals to reconstruct colors during sensor readout, the imaging system comprising:
 2) an array of pixel sensor elements wherein at least part of the array is arranged in rows and columns;
 3) a color filter including a plurality of color filter components organized in a predefined pattern, the color filter overlaying at least a portion of the array;
 4) a readout control circuit coupled to the array; and
 5) an array controller coupled to the array;